

Sample Plan of Study

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Electrical Engineering (EE)

Freshmen Year

Semester 1			Semester 2				
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
ENGR 131	Transforming Ideas to Innovation I (General Eng.)	2	MAT 110 or MA 158 or ENG Math Placement Test	ENGR 132	Transforming Ideas to Innovation II (General Eng.)	2	ENGR 131
MA 165	Analytic Geometry and Calculus I (Mathematics)	4		MA 166	Analytic Geometry and Calculus II (Mathematics)	4	MA 165
ENGL 100	English for Academic Studies (English Lan. & Com.)	3		PHYS 172	Modern Mechanics (Science)	4	ConP: MA 165
CHM 115	General Chemistry I (Science)	4	ConP: MA 165	CS 159	Programming Applications for Engineers (General Eng.)	3	ENGR 131
GEE	General Education Elective (refer to course catalogue)	3		ENGL 106	First-Year Composition (English Lan. & Com.)	4	ENGL 100
Semester Credits = 16				Semester Credits = 17			

Sophomore Year

Semester 3			Semester 4				
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
EE 201	Linear Circuit Analysis I (EE Core)	3	ENGR 131, PHYS 172, MA 166 (C-); ConP: MA 261	EE 202	Linear Circuit Analysis II (EE Core)	3	EE 201 (min C), ConP: MA 266
EE 207	Electronic Measurement Techniques Lab (EE Core)	1	ConP: EE 201	EE 270	Introduction to Digital System Design + Lab (EE Core)	4	ConP: EE 201
MA 261	Multivariate Calculus (Mathematics)	4	MA 166	MA 266	Ordinary Differential Equations (Mathematics)	3	MA 261
PHYS 272	Electric and Magnetic Interactions + Lab (Science)	4	PHYS 172, ConP: MA 166	EE 255	Introduction to Electronic Analysis and Design (EE Core)	3	EE 201 (min C)
COM 114	Fund. of Speech Communication (English Lan. & Com.)	3	ENGL 100	EE 208	Electronic Devices and Design Laboratory (EE Core)	1	EE 207, ConP: EE 255
EE 200	Electrical and Computer Engineering Sophomore Seminar (EE Seminar)	0	Sophomore	GEE	General Education Elective (refer to course catalogue)	3	
Semester Credits = 15				Semester Credits = 17			

Junior Year

Semester 5				Semester 6			
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
EE 301	Signals and Systems (EE Core)	3	EE 202 (min C), MA 266	EE 302	Probabilistic Methods in Electrical and Computer Engineering (EE Core)	3	MA 266, ConP: EE 301
AEE51	Advanced EE Selective (for example: CE 362*)	4	for CE 362: EE 270 (min C) or CE 270 (min C), CS 159	EE 311	Electric and Magnetic Fields (EE Core)	3	EE 201, PHYS 272, MA 266
MA 265	Linear Algebra (Mathematics)	3	MA 166	CEL1	Complementary Elective (for example: EE 453*)	3	for EE 453: MA 265, MA 266, ConP: EE 305
GEE	General Education Elective (for example: ENGL 421*)	3	for ENGL 421: ENGL 106	AEE52	Advanced EE Selective (for example: EE 305*)	3	for EE 305: EE 255, PHYS 272, MA 266
SC	Science Elective *	3		EEE1	EE Elective (for ex: EE 306*)	1	for EE 306: EE 208, ConP: EE 301, EE 302
				GEE	General Education Elective (refer to course catalogue)	3	
Semester Credits = 16				Semester Credits = 16			

Senior Year

Semester 7				Semester 8			
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
EE 400	Professional Development and Career Guidance - Graduation Project I (EE Seminar)	1	EE 200, Senior	EEE3	EE Elective (for example: EE 412; refer to Degree Requirements)	3	for EE 412: EE 311, ConP: EE 301
GEE	General Education Elective (refer to course catalogue)	3		EEE4	EE Elective (for example: EE 413; refer to Degree Requirements)	1	for EE 413: EE 301, EE 208, EE 311, ConP: EE 412
CEL2	Complementary Elective (for example: EE 321*)	3	for EE 321: EE 202, PHYS 272, ConP: EE 255	EEE5	EE Elective (for example: EE 455*)	3	for EE 455: EE 202, EE 255, ConP: EE 305
EEE2	EE Elective (for example: EE 323*)	1	for EE 323: EE 208, ConP: EE 321	CEL3	Complementary Elective (for example: EE 432*)	3	for EE 432: EE 321
AEE53	Advanced EE Selective (for example: EE 438*)	4	for EE 438: EE 301, EE 208, EE 302	EB	Engineering Breadth* (General Eng.)	3	
GEE	General Education Elective (refer to course catalogue)	3		EE 402	Electrical Engineering Design Projects (Senior Design)	3	EE 400 or CE 400, EE or CE Core Curriculum
Semester Credits = 15				Semester Credits = 16			

Total Minimum Credits Required for Graduation = 128**EE Core Curriculum (24 credits): EE 201 (3credits), EE 207 (1credit), EE 202 (3 credits), EE 255 (3 credits), EE 208 (1 credit), EE 270 (4 credits), EE 301 (3 credits), EE 302 (3 credits), EE 311 (3 credits).****AUM reserves the right to change program content, course requirements, materials, and/or schedules as deemed necessary***The sample plan of study is designed for a full time student within an ordinary graduation period between four and five years.*